

INTERNATIONAL SEARCH REPORT

International application No.

PCT/SE 2004/000636

A. CLASSIFICATION OF SUBJECT MATTER

IPC7: A61N 1/365, A61N 1/37, A61B 5/021

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC7: A61B, A61N

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

SE,DK,FI,NO classes as above

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

EPO-INTERNAL, WPI DATA, PAJ, INSPEC, MEDLINE

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	EP 0591642 A1 (SIEMENS ELEMA AB), 13 April 1994 (13.04.1994), figures 1,6, claim 1, abstract --	1-20
A	US 6438408 B1 (LAWRENCE J.MULLIGAN ET AL), 20 August 2002 (20.08.2002), figure 3, claim 1, abstract --	1-20
A	US 5476483 A (GENE A. BORNZIN ET AL), 19 December 1995 (19.12.1995), column 2, line 11 - line 32, figures 1-2, claim 1, abstract --	1-20

☒ Further documents are listed in the continuation of Box C.

☒ See patent family annex.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance: the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance: the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search

25 November 2004

Date of mailing of the international search report

02-12-2004

Name and mailing address of the ISA/

Swedish Patent Office

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INTERNATIONAL SEARCH REPORT

International application No.

PCT/SE 2004/000636

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 20030204145 A1 (JAN MANOLAS), 30 October 2003 (30.10.2003), abstract --	1-20
A	Lazar Mandinov et al Diastolic heart failure Cardiovascular Research 45 (2000) Page 813-825 Elsevier see whole document -- -----	1-20

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Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ Claims Nos.: 13-20
because they relate to subject matter not required to be searched by this Authority, namely:
Claims 13-20 relate to a method of treatment of the human or animal body by surgery or by therapy, as well as diagnostic methods /Rule 39.1(iv). Nevertheless, a search has been executed for these claims. The search has been based on the alleged effects of the compound(s)/product/device.
2. ☐ Claims Nos.:
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/SE 2004/000636

EP 0591642 A1 13/04/1994

DE	69306719	D,T	24/07/1997
JP	6190064	A	12/07/1994
SE	9202937	D	00/00/0000
US	5417715	A	23/05/1995

US 6438408 B1 20/08/2002

CA	2433049	A	11/07/2002
EP	1345651	A	24/09/2003
JP	2004528864	T	24/09/2004
US	20020115939	A	22/08/2002
WO	02053228	A	11/07/2002

US 5476483 A 19/12/1995

NONE

US 20030204145 A1 30/10/2003

DE	10219367 A	13/11/2003
DE	20220722 U	12/02/2004

PCT


Original (for SUBMISSION)

VIII-4-1 1	<p>Declaration: Inventorship (only for the purposes of the designation of the United States of America) Declaration of Inventorship (Rules 4.17(iv) and 51bis.1(a)(iv)) for the purposes of the designation of the United States of America:</p>	<p>I hereby declare that I believe I am the original, first and sole (if only one inventor is listed below) or joint (if more than one inventor is listed below) inventor of the subject matter which is claimed and for which a patent is sought.</p> <p>This declaration is directed to international application PCT/SE2004/000636 (if furnishing declaration pursuant to Rule 26ter).</p> <p>I hereby declare that my residence, mailing address, and citizenship are as stated next to my name.</p> <p>I hereby state that I have reviewed and understand the contents of the above-identified international application, including the claims of said application. I have identified in the request of said application, in compliance with PCT Rule 4.10, any claim to foreign priority, and I have identified below, under the heading "Prior Applications", by application number, country or Member of the World Trade Organization, day, month, and year of filing, any application for a patent or inventor's certificate filed in a country other than the United States of America, including any PCT international application designating at least one country other than the United States of America, having a filing date before that of the application on which foreign priority is claimed.</p>
VIII-4-1-1	Prior applications:	

SUBSTITUTE SHEET (RULE 26)

PCT




Original (for SUBMISSION)

		<p>I hereby acknowledge the duty to disclose information that is known by me to be material to patentability as defined by 37 C.F.R. § 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the PCT international filing date of the continuation-in-part application. I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.</p>
VIII-4-1-1-1	Name (LAST, First)	HEDBERG, Sven-Erik
VIII-4-1-1-2	Residence: (city and either US State, if applicable, or country)	KUNGSÄNGEN, Sweden
VIII-4-1-1-3	Mailing address:	. Odonstigen 5 S-196 32 KUNGSÄNGEN Sweden
VIII-4-1-1-4	Citizenship:	SE
VIII-4-1-1-5	Inventor's Signature: (if not contained in the request, or if declaration is corrected or added under Rule 26ter after the filing of the international application. The signature must be that of the inventor, not that of the agent)	
VIII-4-1-1-6	Date: (of signature which is not contained in the request, or of the declaration that is corrected or added under Rule 26ter after the filing of the international application)	2004-04-29

SUBSTITUTE SHEET (RULE 26)

PCT

Original (for SUBMISSION)

VIII-4-1-2-1	Name (LAST, First)	BJÖRLING, Anders
VIII-4-1-2-2	Residence: (city and either US State, if applicable, or country)	JÄRFÄLLA, Sweden
VIII-4-1-2-3	Mailing address:	. Handbollsvägen 24 G S-175 53 JÄRFÄLLA Sweden
VIII-4-1-2-4	Citizenship:	SE
VIII-4-1-2-5	Inventor's Signature: (if not contained in the request, or if declaration is corrected or added under Rule 26ter after the filing of the international application. The signature must be that of the inventor, not that of the agent)	
VIII-4-1-2-6	Date (of signature which is not contained in the request, or of the declaration that is corrected or added under Rule 26ter after the filing of the international application)	2004-04-28
VIII-4-1-3-1	Name (LAST, First)	TORPO, Maria
VIII-4-1-3-2	Residence: (city and either US State, if applicable, or country)	SUNDBYBERG, Sweden
VIII-4-1-3-3	Mailing address:	. Duvkullavägen 42 B S-172 37 SUNDBYBERG Sweden
VIII-4-1-3-4	Citizenship:	SE
VIII-4-1-3-5	Inventor's Signature: (if not contained in the request, or if declaration is corrected or added under Rule 26ter after the filing of the international application. The signature must be that of the inventor, not that of the agent)	
VIII-4-1-3-6	Date (of signature which is not contained in the request, or of the declaration that is corrected or added under Rule 26ter after the filing of the international application)	2004-04-28
VIII-4-1-4-1	Name (LAST, First)	LJUNGSTRÖM, Karin
VIII-4-1-4-2	Residence: (city and either US State, if applicable, or country)	HÄSSELBY, Sweden
VIII-4-1-4-3	Mailing address:	. Alberg Landbergs gränd 34 S-165 70 HÄSSELBY Sweden
VIII-4-1-4-4	Citizenship:	SE
VIII-4-1-4-5	Inventor's Signature: (if not contained in the request, or if declaration is corrected or added under Rule 26ter after the filing of the international application. The signature must be that of the inventor, not that of the agent)	
VIII-4-1-4-6	Date (of signature which is not contained in the request, or of the declaration that is corrected or added under Rule 26ter after the filing of the international application)	04-04-29